## 10637667\_CLS.txt Most frequently occurring classifications of patents returned from a search Of 10637667 on Jan 25 , 2007

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Original Classifications
6 704/231
4 704/254
4 704/256
     42222222
               704/243
              704/243
704/267
704/251
704/242
704/232
704/244
               704/244
Cross-Reference Classifications
               704/243
704/251
     97744433333322
              704/256
704/240
704/231
704/242
704/254
               704/241
704/255
704/245
704/258
               704/257
               704/233
               704/256.8
Combined Classifications
11 704/243
11 704/251
11 704/256
10 704/231
   10886544333332222222222
               704/254
704/240
               704/242
               704/245
704/241
704/257
704/255
               704/232
               704/258
704/258
704/244
704/267
               704/256.4
              704/256.4
704/234
704/222
704/233
704/260
704/256.8
704/200
               704/270
```

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Titles of most frequently occurring classifications of patents returned from a search of 10637667 on Jan 25 , 2007
    704/243
                     (2 OR, 9 XR)
 11
           Class 704
                          DATA PROCESSING: SPEECH SIGNAL PROCESSING, LINGUISTICS,
LANGUAGE TRANSLATION, AND AUDIO COMPRESSION/DECOMPRESSION
                          .SPEECH SIGNAL PROCESSING
           704/200
           704/231
                          ..Recognition
           704/243
                          ...Creating patterns for matching
                     (2 OR, 9 XR)
 11 704/251
           Class 704
                          DATA PROCESSING: SPEECH SIGNAL PROCESSING, LINGUISTICS,
LANGUAGE TRANSLATION, AND AUDIO COMPRESSION/DECOMPRESSION
           704/200
704/231
                          .SPEECH SIGNAL PROCESSING
                          .. Recognition
           704/251
                          ...Word recognition
           .30 (4 OR, 7 XR)
Class 704 DATA
    704/256
                          DATA PROCESSING: SPEECH SIGNAL PROCESSING, LINGUISTICS,
LANGUAGE TRANSLATION, AND AUDIO COMPRESSION/DECOMPRESSION
           704/200
                          .SPEECH SIGNAL PROCESSING
           704/231
                          .. Recognition
           704/251
704/255
704/256
                          ...Word recognition
                          ....Specialized models
                          ....Markov
 10 704/231
                     (6 OR, 4 XR)
           Class 704
                          DATA PROCESSING: SPEECH SIGNAL PROCESSING, LINGUISTICS,
LANGUAGE TRANSLATION, AND AUDIO COMPRESSION/DECOMPRESSION
           704/200
                          .SPEECH SIGNAL PROCESSING
           704/231
                           ..Recognition
           (4 OR, 4 XR)
Class 704 DATA
    704/254
                          DATA PROCESSING: SPEECH SIGNAL PROCESSING, LINGUISTICS,
LANGUAGE TRANSLATION, AND AUDIO COMPRESSION/DECOMPRESSION 704/200 .SPEECH SIGNAL PROCESSING
           704/231
                          ..Recognition
           704/25\overline{1}
                          ...Word recognition
           704/254
                          ....Subportions
    704/240
                     (1 \text{ OR}, 7 \text{ XR})
           Class 704
                          DATA PROCESSING: SPEECH SIGNAL PROCESSING, LINGUISTICS,
LANGUAGE TRANSLATION, AND AUDIO COMPRESSION/DECOMPRESSION
           704/200
704/231
                          .SPEECH SIGNAL PROCESSING
                          .. Recognition
           704/236
                          ... Specialized equations or comparisons
           704/240
                          ....Probability
                     (2 OR, 4 XR)
  6 704/242
           Class 704
                          DATA PROCESSING: SPEECH SIGNAL PROCESSING, LINGUISTICS,
LANGUAGE TRANSLATION, AND AUDIO COMPRESSION/DECOMPRESSION
           704/200
                          .SPEECH SIGNAL PROCESSING
           704/231
704/236
                          ..Recognition
                          ... Specialized equations or comparisons
           704/242
                          ....Viterbi trellis
     704/245
                     (2 OR, 3 XR)
           Class 704
                          DATA PROCESSING: SPEECH SIGNAL PROCESSING, LINGUISTICS,
LANGUAGE TRANSLATION, AND AUDIO COMPRESSION/DECOMPRESSION
           704/200
                          .SPEECH SIGNAL PROCESSING
           704/231
704/243
                          ..Recognition
                          ... Creating patterns for matching
```

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10637667_CLSTITLES.txt
           704/245
                          ....Clustering
     704/241
                     (1 OR, 3 XR)
           Class 704
                          DATA PROCESSING: SPEECH SIGNAL PROCESSING, LINGUISTICS,
LANGUAGE TRANSLATION, AND AUDIO COMPRESSION/DECOMPRESSION 704/200 .SPEECH SIGNAL PROCESSING
           704/231
                          ... Recognition
           704/236
                          ... Specialized equations or comparisons
           704/241
                          ....Dynamic time warping
                     (1 OR, 3 XR)
    704/257
           Class 704
                          DATA PROCESSING: SPEECH SIGNAL PROCESSING, LINGUISTICS,
LANGUAGE TRANSLATION, AND AUDIO COMPRESSION/DECOMPRESSION
           704/200
704/231
                          .SPEECH SIGNAL PROCESSING
                          .. Recognition
           704/251
                          ...Word recognition
           704/255
                          ....Specialized models
           704/257
                          .....Natural language
    704/255
                     (0 \text{ OR}, 3 \text{ XR})
           Class 704
                          DATA PROCESSING: SPEECH SIGNAL PROCESSING, LINGUISTICS,
LANGUAGE TRANSLATION, AND AUDIO COMPRESSION/DECOMPRESSION
           704/200
                          .SPEECH SIGNAL PROCESSING
           704/231
                          ..Recognition
           704/251
704/255
                          ...Word recognition
                          ....Specialized models
    704/232
                     (2 OR, 1 XR)
           Class 704
                          DATA PROCESSING: SPEECH SIGNAL PROCESSING, LINGUISTICS,
LANGUAGE TRANSLATION, AND AUDIO COMPRESSION/DECOMPRESSION
           704/200
                          .SPEECH SIGNAL PROCESSING
          704/231
                          ..Recognition
           704/232
                          ...Neural network
    704/258
                     (0 \text{ OR}, 3 \text{ XR})
           Class 704
                          DATA PROCESSING: SPEECH SIGNAL PROCESSING, LINGUISTICS,
LANGUAGE TRANSLATION, AND AUDIO COMPRESSION/DECOMPRESSION
           704/200
                          SPEECH SIGNAL PROCESSING
           704/258
                          ...Synthesis
    704/244
                     (2 \text{ OR}, 1 \text{ XR})
          Class 704
                          DATA PROCESSING: SPEECH SIGNAL PROCESSING, LINGUISTICS,
LANGUAGE TRANSLATION, AND AUDIO COMPRESSION/DECOMPRESSION
          704/200
704/231
                          .SPEECH SIGNAL PROCESSING
                          ..Recognition
           704/243
                          ...Creating patterns for matching
           704/244
                          ....Update patterns
  2 704/267
                     (2 OR, 0 XR)
          Class 704
                          DATA PROCESSING: SPEECH SIGNAL PROCESSING, LINGUISTICS,
LANGUAGE TRANSLATION, AND AUDIO COMPRESSION/DECOMPRESSION
          704/200
704/258
                          .SPEECH SIGNAL PROCESSING
                          .. Synthesis
          704/267
                          ...Time element
     704/256.4
                    (1 OR, 1 XR)
          Class 704
                          DATA PROCESSING: SPEECH SIGNAL PROCESSING, LINGUISTICS,
LANGUAGE TRANSLATION, AND AUDIO COMPRESSION/DECOMPRESSION
          704/200
                          .SPEECH SIGNAL PROCESSING
          704/231
704/251
704/255
                          .. Recognition
                          ...Word recognition
                          ....Specialized models
          704/256
                          ....Markov
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10637667_CLSTITLES.txt
                          .....Hidden Markov Model (HMM) (EPO)
......Duration modeling in HMM, e.g., semi HMM, segmental
           704/256.1
           704/256.4
models, transition probabilities (EPO)
           Class 704 DAT.
  2 704/234
                          DATA PROCESSING: SPEECH SIGNAL PROCESSING, LINGUISTICS,
LANGUAGE TRANSLATION, AND AUDIO COMPRESSION/DECOMPRESSION
           704/200
                          .SPEECH SIGNAL PROCESSING
           704/231
704/234
                          .. Recognition
                          ...Normalizing
    704/222
                     (1 OR, 1 XR)
           Class 704
                          DATA PROCESSING: SPEECH SIGNAL PROCESSING, LINGUISTICS,
LANGUAGE TRANSLATION, AND AUDIO COMPRESSION/DECOMPRESSION
           704/200
                          .SPEECH SIGNAL PROCESSING
           704/201
                          ... For storage or transmission
           704/221
                          ...Pattern matching vocoders
           704/222
                          ....Vector quantization
    704/233
                     (0 \text{ OR}, 2 \text{ XR})
           class 704
                          DATA PROCESSING: SPEECH SIGNAL PROCESSING, LINGUISTICS,
LANGUAGE TRANSLATION, AND AUDIO COMPRESSION/DECOMPRESSION
                          .SPEECH SIGNAL PROCESSING
           704/200
           704/231
                           ... Recognition
           704/233
                          ...Detect speech in noise
  2 704/260
                     (1 OR, 1 XR)
           class 704
                          DATA PROCESSING: SPEECH SIGNAL PROCESSING, LINGUISTICS,
LANGUAGE TRANSLATION, AND AUDIO COMPRESSION/DECOMPRESSION
           704/200
704/258
                          .SPEECH SIGNAL PROCESSING
                           ...Synthesis
           704/260
                          ...Image to speech
    704/236
                     (1 OR, 1 XR)
           class 704
                          DATA PROCESSING: SPEECH SIGNAL PROCESSING, LINGUISTICS,
LANGUAGE TRANSLATION, AND AUDIO COMPRESSION/DECOMPRESSION
           704/200
                          .SPEECH SIGNAL PROCESSING
           704/231
                           .. Recognition
           704/236
                           ... Specialized equations or comparisons
    704/256.8
                     (0 \text{ OR}, 2 \text{ XR})
           Class 704
                          DATA PROCESSING: SPEECH SIGNAL PROCESSING, LINGUISTICS,
LANGUAGE TRANSLATION, AND AUDIO COMPRESSION/DECOMPRESSION
           704/200
                          .SPEECH SIGNAL PROCESSING
           704/231
                          ..Recognition
           704/251
                          ...Word recognition
           704/255
                          ....Specialized models
           704/256
704/256.1
                          ....Markov
                          .....Hidden Markov Model (HMM) (EPO)
704/256.6 ......State emission probability (EPO)
704/256.8 .......Discrete density, e.g., Vector Quantization preprocessor, look up tables (EPO)
    704/200
                     (1 \text{ OR}, 1 \text{ XR})
           class 704
                          DATA PROCESSING: SPEECH SIGNAL PROCESSING, LINGUISTICS,
LANGUAGE TRANSLATION, AND AUDIO COMPRESSION/DECOMPRESSION
           704/200
                          .SPEECH SIGNAL PROCESSING
    704/270
                     (1 OR, 1 XR)
           Class 704
                        DATA PROCESSING: SPEECH SIGNAL PROCESSING, LINGUISTICS,
LANGUAGE TRANSLATION, AND AUDIO COMPRESSION/DECOMPRESSION
           704/200
                          .SPEECH SIGNAL PROCESSING
           704/270
                          ..Application
```

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